

**Management of CADD**

<b>Title &amp; Description</b>	<b>Date</b>
1. <b>Templates &amp; Prototypes</b> – Installing the AutoCAD templates, Eagle Point prototypes, and CADD support files.	12/21/2001
2. <b>NRCS/EP Menus</b> – Installation of customized NRCS/EP menus & toolbars.	8/14/2002
3. <b>Files &amp; Projects</b> – Tips for management of Eagle Point & AutoCAD files & projects.	12/21/2001
4. <b>Transferring Files</b> – Using FTP to transfer CADD files & projects.	1/7/2002
5. <b>License Manager</b> – What to do if a network license is not working correctly.	1/7/2002



## Installation of Midwest CADD standards & Iowa support files

### Self extracting files:

#### ACAD\_NRCS.exe

- ◆ Contains NRCS support files for linestyles, plot styles, etc
- ◆ Extract into the folder that holds the Support folder for ACAD. A folder called SupportNRCS is created.  
(Mine is c:\Program Files\AutoDesk\Acadmap4)

#### My Projects.exe

- ◆ Contains – NRCS template and prototype drawings, borders, blocks, OLE items.
- ◆ Extract to where the CAD & EaglePoint projects will be stored (My Projects\... will be created).  
(Mine is c:\)

#### EpcadSettings.exe

- ◆ Contains – Default CAD settings for EaglePoint with an NRCS prototype project  
Two added default prototypes are created (11x17 and 22x34).  
Road calc templates and prototypes will overwrite existing files.  
Surface Model, Watershed Modeling, and Water Surface Profile libraries will overwrite any existing libraries.
- ◆ Extract to the EGPT folder that holds the Support folder. (Mine is c:\Program Files\Eagle Point Software\EGPT)

IA\_FieldCode.exe –**NOTE:** This will overwrite any existing Field code libraries additions or changes that you have made. Backup your “Support” directory to be able to restore your settings.

- ◆ Contains - Iowa Field Code node library and data collection settings
- ◆ Extract to the EGPT folder that holds the Support folder.  
(Mine is c:\Program Files\Eagle Point Software\EGPT)

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### Other

Settings required in AutoCAD profiles:

Go to ACAD menus -Tools... Options... Files...  
Support File Search Path should have c:\...Acad...\SupportNRCS  
Drawing Template File Location should have c:\My Projects\Templates

Additional AutoCAD Settings for the EP profiles:

Go to ACAD menus -Tools... Options... Files...  
Support File Search Path should have c:\...\EGPT\Images

Tools... Options... Plotting...  
OLE Plot Quality = Line Art  
Default plot style table = *monochrome.ctb* or *IA NRCS BWgray.ctb*

The Desktop icon can have the Properties... Short cut... Start In... can be set to the *My Projects* directory. (For both AutoCAD & EaglePoint)



## Installation of customized NRCS/EP menus & toolbars

NRCS/EP Menu & Toolbars – Version 1.10a

### **Extract the files:**

Unzip the file nrCsEPmenu.zip to a temporary folder.

Extract NRCSmacros.exe into the c:\My Projects directory. A *Macros* directory will be created containing NRCS macros.

Extract EpnrcsMenu.exe into the folder that contains the AutoCAD program. Mine is the *c:\Program Files\AutoDesk\AcadMap4* folder. A SupportNRCS folder will be created containing menu files.

### **Steps for each CAD user:**

Check the support file path:

Launch Eagle Point & AutoCAD

In AutoCAD go to *Tools... Options...*

Click the **Files** tab

Double Click *Support File Search Path*

If *c:\Program Files\AutoDesk\AcadMap4\SupportNRCS* is not present Click **Add** and Browse to that folder. Then Click **OK**

Click **OK**

Load Menu items:

In AutoCAD go to *Tools... Customize... Menus...*

Go to the **Menu Groups** tab

Click **Browse**

Browse to the *c:\Program Files\AutoDesk\AcadMap4\SupportNRCS* folder and highlight the *EPnrcs.mnc* file.

Click **Open**

Click **Load**

Highlight *EP\_NRCS*

Click the **Menu Bar** tab

Scroll down on the right column and highlight *Help*.

Click **Insert>>**

Click **Close**

The NRCS/EP menu will be added to the menu and 4 toolbars associated with the menu group *EP\_NRCS* are available. The storage pond & effective fetch macros will also be available for use through the menus and toolbars.



## Management of EaglePoint & AutoCAD files and projects

### Steps to take when transferring an EaglePoint project to another office for review or additional work.

- ✓ Reduce the size of drawing files
- ✓ Make a zipped backup of the project folder's entire contents for you to keep. Identify it as an archive.
- ✓ Compress all of the EaglePoint & AutoCAD files (other than the backup drawings) and place into manageable sized zip files.
- ✓ Use email or FTP to transfer the project's zipped files. ( A 7MB zip file has been successfully emailed within Iowa)
- ✓ Make sure that the target user has access to any referenced files and support files.
  - DOQs, DRGs
  - ACAD linestyles, hatch patterns
  - EaglePoint Field Code library (Needed if nodes get swiveled, resized, etc via EP)
- ✓ Make it clear that the "official" copy of the project does not exist on your computer anymore:
  - Rename the EP project name on your computer to note that the official files have been transferred to another location.

### Ways to reduce the size of a DWG file

- ❖ Remove unnecessary objects in the CAD drawing
  - Some EaglePoint items are helpful to display during the design process but are not needed for the construction drawings.
  - TINs, Contours of planned excavations & surfaces, etc
  - These items can be placed into CAD again by the reviewer if they need to see them.
- ❖ Place items into CAD using the type of object that are the smallest.
  - Contours should be placed as "LW polylines". (Smaller than EPObjets or 2D Polylnes)
  - Place TINs using "EP objects".
  - Grids can be placed as "EP Objects". (Faces are slightly larger; lines are much larger.)
  - NOTE: EaglePoint objects are smaller than most ACAD objects.  
Fewer CAD properties are displayed for EP objects.  
When an EaglePoint object is viewed without running EaglePoint, there is a loss of the "smart" features of those objects.
- ❖ When placing contours as AutoCAD objects, a smaller Smoothing Factor means rougher contours but smaller file size. (Try 0 for DEMs, 3 or 4 for normal surveys.) (Polynomial=0)
- ❖ Drawings that do not require reference to the EaglePoint portion of the work can be kept as separate drawings.
  - Standard details (Fence, pipe, Trash rack, etc)
  - NOTE: Only one user can edit an AutoCAD drawing at a time. Multiple drawings allows several drawings to be worked on by several users at the same time.
- ❖ Additional drawings can be created within EaglePoint.
  - Creating an additional drawing allows multiple users to do simultaneous editing on separate files.
  - An additional drawing could be used to hold original digitized lines that were used to develop a TIN/surface model. These lines should be maintained but do not need to be kept in the construction drawing file.
- ❖ X-referenced drawings can keep individual file sizes smaller.
  - Allows simultaneous file editing
  - Editing of objects in external referenced drawings is not as convenient.





### **TRANSFERRING FILES USING ONNET 4.0**

Following is the procedure for creating a session in Onnet 4.0 to connect to the server in the SO. You can transfer files to and from the *Ia Cadd Files* directory. An account is setup on the server that will allow you to read, copy or create files and directories. You will not be able to delete files or overwrite files once you've put them there. You will need an administrator at the SO for such activities.

From your Windows NT desktop:

- Start
- Programs
- Onnet Host Suite 4.0
- File Transfer (FTP)

The first time you go here, you will need to Make a New Session

- Double click on Make New Session icon  
(A Wizard will appear)
- Click Next
- Click on Connect directly to a specific FTP site or host
- Click Next
- Click on Account
- Click Next
- Type Host: *xxx.xxx.xxx.xxx (obtain from Ron Carper or Norman Friedrich)*
- Click Next
- Type Username: *(obtain from Ron Carper or Norman Friedrich)*
- Type Password: *(obtain from Ron Carper or Norman Friedrich)*
- Check Save Password
- Click Next
- Click Finish

Your computer will now connect to the engineering server in Des Moines. You can change the view to a Double Tree View from the View Menu. Change to the appropriate folder on you computer and copy files either direction. (Server to your computer or vice-versa.) Right clicking in the white space of the directories will allow you to create folders to better organize the server's directory.

Once you have sucessfully connected to the server, you can save the session by selecting Session – Save As from the File Transfer Menu. The next time you enter the Onnet FTP program you will be able to connect by double clicking the session you saved.



## License Manager Troubleshooting

I have a network version of Eagle Point and AutoCAD but it will not launch. What do I do?

A) The error indicates all licenses are in use:

1. Try using the software later after other users are done using the software.

B) The error indicates “No TCP license servers are responding” or “Security system is not functioning or not properly installed”.

1. Try finding out if it is only one of the programs that won’t launch.

- 1.1. I was able to launch the other program.

Check the system variable settings for the non-working program

Start... Settings... Control Panel... System... Environment

for AutoCAD check ACADSERVER, for Eagle Point check EPSERVTC

Both values should be: xxxxxxxxxx.ST.nrcs.usda.gov

(obtain correct values for your state)

- 1.1.1. Values are missing or not correct: Input the correct variable & value and click Set. Reboot computer and retry.

- 1.1.2. Values are correct but only one runs correctly still. Reboot computer and retry. If still not working, call \*License support.

- 1.2. Neither program will run.

Reboot computer and retry. If still not working, go to #2

2. Check the Wide Area Network (WAN) connection to the license manager:

Start... Program... OnNet... Network Tools... Ping...

At the Host line input xxxxxxxxxx.ST.nrcs.usda.gov

Click Start, Observe whether the packets are successfully sent, Click Stop

- 2.1. Replies were received. Try relaunching software. If not successful contact \*License support. (WAN is working using computer names but license manager software is not responding.)

- 2.2. No replies were received. (Your computer could not contact the license manager in Des Moines using machine name)

Go to #3

3. Check the Wide Area Network (WAN) connection to the license manager:

Using the same Ping software input xxx.xxx.xxx.xxx

Click Start, Observe whether the packets are successfully sent, Click Stop

- 3.1. Replies were received. Try relaunching software. If not successful contact \*License support. (The WAN is working correctly to the license manager using IP addresses.)

- 3.2. No replies were received. (Your computer could not contact the license manager in Des Moines using IP address)

Go to #4

4. Check the WAN connection to another computer in Des Moines.

Using the same Ping software input xxx.xxx.xxx.xxx

Click Start, Observe whether the packets are successfully sent, Click Stop

- 4.1. Replies were received. Retry software. If not successful contact \*License support. (The WAN is working correctly to the engineering server in Des Moines using IP addresses but not to the license manager.)
- 4.2. No replies were received. (Your computer could not contact the engineering server in Des Moines)  
Go to #5
5. Check the WAN connection to a computer in West Union.  
Using the same Ping software input xxx.xxx.xxx.xxx  
Click Start, Observe whether the packets are successfully sent, Click Stop
- 5.1. Replies were received. (The WAN is working correctly to West Union but not to Des Moines). Retry software. If not successful contact \*License support.
- 5.2. No replies were received. (Your computer could not contact the backup license manager in West Union)  
Go to #6
6. Check the local area network (LAN) connection to a computer in your office.  
Determine the IP address of a computer in your office that is running.  
Using the same Ping software input that IP address: e.g. xxx.xxx.xxx.xxx  
Click Start, Observe whether the packets are successfully sent, Click Stop
- 6.1. Replies were received. (The LAN is working correctly but the WAN might not be). Contact \*License support.
- 6.2. No replies were received. (Your computer could not contact a computer on your LAN)  
Make sure LAN cables are connected correctly. Work with your local administrator to correct the LAN problem.

**\*License Support**

1. Norman Friedrich
2. Ron Carper
3. Jim Dustin